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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/848,713	05/03/2001	Doug Grumann	10002681-1	7924
22879	7590	04/29/2009	EXAMINER	
HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400				AILES, BENJAMIN A
ART UNIT		PAPER NUMBER		
2442				
			NOTIFICATION DATE	DELIVERY MODE
			04/29/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No.	Applicant(s)	
	09/848,713	GRUMANN ET AL.	
	Examiner	Art Unit	
	BENJAMIN AILES	2442	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 24 December 2008.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1,2,4-8,11,12,14-22 and 24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1,2,4-8,11,12,14-22 and 24 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ . |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____. | 6) <input type="checkbox"/> Other: _____ . |

DETAILED ACTION

1. This action is in response to correspondence filed 24 December 2008
2. Claims 1, 2, 4-8, 11, 12, 14-22 and 24 remain pending.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Applicant's amendment to claim 11 has been entered into the record and overcomes the prior rejection made under 35 USC 112, second paragraph. The rejection under 35 USC 112, second paragraph with respect to claims 11, 12 and 14-17 has therefore been withdrawn.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 1, 2, 4, 5, 6, 8, 11, 12, 14, 17-22 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over “Systems Management: Application Response Measurement (ARM) API” (The Open Group), hereinafter referred to as “ARM API”, in view of Leymann et al. (US 6,633,908 B1), hereinafter referred to as Leymann.

7. Regarding claim 1, ARM API teaches a method for dynamically determining the health of a service resident on a host machine (page 3, figure 1-1), comprising:
collecting service performance information (p. 3, fig. 1-1, measurement agent) from the resident service (p. 3, fig. 1-1, client, server end systems), wherein the collected service information relates to a plurality of performance metrics (fig. 1-1, monitor application response); and

wherein the output comprises a plurality of service health metrics, and the plurality of performance metrics to provide one or more of the plurality of service health metrics, wherein the plurality of service health metrics comprises availability, capacity, throughput, service time, queue length, utilization, service level violations, and user satisfaction (fig. 1-1, monitor application response).

ARM API teaches in (fig. 1-1, monitor application response) the collection of service performance information by an ARM API wherein the output is one of a scriptable interface and application programming interface (fig. 1-1, use of ARM API) and useable by different performance monitoring tools (fig. 1-1, measurement agent) but does not explicitly recite the translation of the performance information into a

generic output. However, in related art, Leymann teaches these features. Leymann teaches the utilization of an application response measurement API (fig. 1, 106) in communication with an API sub-agent (fig. 1, 107) over a network wherein an agent is utilized for data handling and is deemed generic in order to be independent from a specific application and therefore the data is available for all applications requesting the data (col. 8, ll. 3-14). In view of Leymann, it is therefore deemed that it would have been obvious to one of ordinary skill in the art to implement the ARM API to translate the collected service performance information in to a generic output. One of ordinary skill in the art would have been motivated to incorporate the teachings of Leymann with ARM API in order to implement independence from a specific application and make the data available for a wide range of calling applications (Leymann, col. 8, ll. 9-13).

8. Regarding claim 2, ARM API and Leymann teach the method wherein the host machine comprises one or more components, further comprising:

collecting external performance information from one or more of the one or more components (ARM API, fig. 1-1, monitor application response);

translating the collected external performance information (Leymann, col. 8, ll. 9-13); and

combining the translated external performance information and the translated service performance information to provide the generic output (Leymann, col. 8, ll. 9-13).

9. Regarding claim 4, ARM API and Leymann teach the method further comprising accessing the generic output to read the health of the service (Leymann, col. 8, ll. 9-13).

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10. Regarding claim 5, ARM API and Leymann teach the method wherein the collecting step comprises reading performance information provided by the service (ARM API, fig. 1-1, monitor application response).

11. Regarding claim 6, ARM API and Leymann teach the method wherein the collecting step comprises deriving performance information from the service (ARM API, fig. 1-1, monitor application response).

12. Regarding claim 8, ARM API and Leymann teach the method wherein the deriving step comprises using a probe program to read the performance information (Leymann, col. 8, ll. 9-13, data read by independent components).

13. Regarding claim 11, ARM API teaches an apparatus that determines a health of a service resident on a host machine, comprising:

a data collection engine (p. 3, fig. 1-1, measurement agent) that collects service health information (fig. 1-1, monitor application response);

wherein the collected service health information relates to a plurality of performance metrics, the plurality of performance metrics to provide one or more of the plurality of service health metrics, wherein the plurality of service health metrics comprises availability, capacity, throughput, service time, queue length, utilization, service level violations, and user satisfaction (fig. 1-1, monitor application response).

ARM API teaches in (fig. 1-1, monitor application response) the collection of service performance information by an ARM API wherein the output is one of a scriptable interface and application programming interface (fig. 1-1, use of ARM API) and useable by different performance monitoring tools (fig. 1-1, measurement agent)

but does not explicitly recite the translation of the data in a health generation algorithm providing one or more generic health metrics. However, in related art, Leymann teaches these features. Leymann teaches the utilization of an application response measurement API (fig. 1, 106) in communication with an API sub-agent (fig. 1, 107) over a network wherein an agent is utilized for data handling and is deemed generic in order to be independent from a specific application and therefore the data is available for all applications requesting the data (col. 8, ll. 3-14). In view of Leymann, it is therefore deemed that it would have been obvious to one of ordinary skill in the art to implement the ARM API to translate the collected service performance information in to a generic output. One of ordinary skill in the art would have been motivated to incorporate the teachings of Leymann with ARM API in order to implement independence from a specific application and make the data available for a wide range of calling applications (Leymann, col. 8, ll. 9-13).

14. Regarding claim 12, ARM API and Leymann teach the apparatus wherein the host machine comprises one or more external components, wherein the data collection engine collects external performance information from one or more external components (ARM API, fig. 1-1, monitor application response) and wherein the data analysis engine translates the collected external information using the health generation algorithm to provide the one or more generic health metrics (Leymann, col. 8, ll. 3-14).

15. Regarding claim 14, ARM API and Leymann teach the apparatus wherein the data collection engine, comprises:

a data query module that reads performance information from the service (ARM API, fig. 1-1, measurement agent); and

a data derivation module that derives performance information from the service (ARM API, fig. 1-1, monitor application response).

16. Regarding claim 17, ARM API and Leymann teach the apparatus further comprising an interval control engine that receives the service health information at a first time interval and provides an output having a second time interval different from the first time interval (Leymann, col. 8, ll. 3-7).

17. Regarding claim 18, ARM API teaches an apparatus that determines a health of a service resident on a host machine, comprising:

a data collection engine (p. 3, fig. 1-1, measurement agent) that collects service health information (fig. 1-1, monitor application response);

wherein the collected service health information relates to a plurality of performance metrics, the plurality of performance metrics to provide one or more of the plurality of service health metrics, wherein the plurality of service health metrics comprises availability, capacity, throughput, service time, queue length, utilization, service level violations, and user satisfaction (fig. 1-1, monitor application response).

ARM API teaches in (fig. 1-1, monitor application response) the collection of service performance information by an ARM API wherein the output is one of a scriptable interface and application programming interface (fig. 1-1, use of ARM API) and useable by different performance monitoring tools (fig. 1-1, measurement agent) but does not explicitly recite the translation of the data in a health generation algorithm

providing one or more generic health metrics. However, in related art, Leymann teaches these features. Leymann teaches the utilization of an application response measurement API (fig. 1, 106) in communication with an API sub-agent (fig. 1, 107) over a network wherein an agent is utilized for data handling and is deemed generic in order to be independent from a specific application and therefore the data is available for all applications requesting the data (col. 8, ll. 3-14). In view of Leymann, it is therefore deemed that it would have been obvious to one of ordinary skill in the art to implement the ARM API to translate the collected service performance information in to a generic output. One of ordinary skill in the art would have been motivated to incorporate the teachings of Leymann with ARM API in order to implement independence from a specific application and make the data available for a wide range of calling applications (Leymann, col. 8, ll. 9-13).

18. Regarding claim 19, ARM API and Leymann teach the method wherein the step of collecting the service performance information comprises reading first service performance parameters, and wherein the step of collecting the external performance information comprises reading first external performance parameters and deriving second external performance parameters (ARM API, fig. 1-1, monitor application response).

19. Regarding claim 20, ARM API and Leymann teach the method further comprising collecting the service performance information on a first time interval and adjusting the first time interval to provide the generic service health output at a second time interval (Leymann, col. 8, ll. 3-7).

20. Regarding claim 21, ARM API teaches an apparatus that determines a health of a service, wherein the service operates on a host computer (page 3, figure 1-1), comprising:

a collection module that receives performance information related to the service (p. 3, fig. 1-1, measurement agent); and

wherein the output comprises a plurality of service health metrics, and the plurality of performance metrics to provide one or more of the plurality of service health metrics, wherein the plurality of service health metrics comprises availability, capacity, throughput, service time, queue length, utilization, service level violations, and user satisfaction (fig. 1-1, monitor application response).

ARM API teaches in (fig. 1-1, monitor application response) the collection of service performance information by an ARM API wherein the output is one of a scriptable interface and application programming interface (fig. 1-1, use of ARM API) and useable by different performance monitoring tools (fig. 1-1, measurement agent) but does not explicitly recite the translation of the performance information into a generic output. However, in related art, Leymann teaches these features. Leymann teaches the utilization of an application response measurement API (fig. 1, 106) in communication with an API sub-agent (fig. 1, 107) over a network wherein an agent is utilized for data handling and is deemed generic in order to be independent from a specific application and therefore the data is available for all applications requesting the data (col. 8, ll. 3-14). In view of Leymann, it is therefore deemed that it would have been obvious to one of ordinary skill in the art to implement the ARM API to translate the

collected service performance information in to a generic output. One of ordinary skill in the art would have been motivated to incorporate the teachings of Leymann with ARM API in order to implement independence from a specific application and make the data available for a wide range of calling applications (Leymann, col. 8, ll. 9-13).

21. Regarding claim 22, ARM API and Leymann teach the apparatus wherein the collection module receives external performance information from one or more external services coupled to the host computer and receives internal performance information related to operation of the service on the host computer (ARM API, fig. 1-1, monitor application response).

22. Regarding claim 24, ARM API and Leymann teach the apparatus wherein the generic health metrics is one of a scriptable interface and an application programming interface (ARM API, use of API for response measurement).

23. Claims 7 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over ARM API and Leymann in view of Chappelle (US 5,949,976).

24. Regarding claim 7, ARM API and Leymann do not explicitly teach of using a wrapper program. Chappelle teaches about using a wrapper program (performance monitoring and graphing tool) to read the performance information (col. 3, ll. 29-32). The examiner is interpreting wrapper program as any program that is used as an interface program because this gives the broadest reasonable interpretation. In ARM API's specification, the performance forecasting system communicates with one or more monitoring system (fig. 1-1, enterprise management solutions). It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to

utilize the teaching of Chappelle in regards to using a wrapper program because it would have allowed the performance forecasting system to read the information supplied by various monitoring systems regardless of the components particular infrastructure. One of ordinary skill in the art would have been motivated because this modification would result in a more versatile system as outlined above.

25. Regarding claim 15, ARM API and Leymann do not explicitly teach of using a wrapper program. Chappelle teaches about using a wrapper program (performance monitoring and graphing tool) to read the performance information (col. 3, ll. 29-32). The examiner is interpreting wrapper program as any program that is used as an interface program because this gives the broadest reasonable interpretation. In ARM API's specification, the performance forecasting system communicates with one or more monitoring system (fig. 1-1, enterprise management solutions). It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to utilize the teaching of Chappelle in regards to using a wrapper program because it would have allowed the performance forecasting system to read the information supplied by various monitoring systems regardless of the components particular infrastructure. One of ordinary skill in the art would have been motivated because this modification would result in a more versatile system as outlined above.

26. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over ARM API and Leymann in view of Warland et al. (US 6,647,413), hereinafter referred to as Warland.

27. Regarding claim 16, ARM API and Leymann do not explicitly teach of a weighting scheme that weights one or more performance information parameters; a summation scheme that combines one or more performance information parameters; and a averaging scheme that averages collected service health information for a service health metric. However, Walrand teaches on these aspects. Walrand teaches about a summation scheme that combines one or more performance information parameters (col. 7, ll. 32-33) and an averaging scheme that averages collected service health information for a service health metric (col. 7, ll. 55-57). In HPCN Walrand teaches of a weighting scheme that allocates different level of importance to different parameters (p. 2). One objective of Walrand invention is to optimize the network performance (col. 2, ll. 53-54). It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to utilize the above mentioned features of Walrand's into ARM API and Leymann because adding these features to ARM API and Leymann would allow focus on specific parameters (using the weighting scheme) and give information regarding the overall performance of the network system (using the summation and averaging schemes). These added features would allow ARM API and Leymann to provide a healthy network and more effectively predict failure of registered computing devices (col. 2, ll. 25-34) resulting in a more efficient performance forecasting system. It is for this reason that one of ordinary skill in the art at the time of invention would have been motivated to make the above-mentioned modifications.

Response to Arguments

28. Applicant's arguments filed 24 December 2008 have been fully considered but they are not persuasive.

Claim 1

29. With respect to the rejection of claim 1 under 35 USC 103(a) in view of ARM API and Leymann (US 6,633,908), the applicant argues (a) that Leymann does not disclose or suggest "use of a generic output" and (b) that Leymann and ARM API cannot be combined because Leymann is distinct from ARM API. The examiner respectfully disagrees with the applicant's position.

30. (a) With respect to teaching the "use of a generic output" the examiner maintains that Leymann teaches on this broadly claimed aspect wherein Leymann teaches in column 8, lines 3-14 the making of data available for all applications requesting the data by use of an invocation agent. The invocation agent provides the data needed by calling applications and is considered a generic component due to its independence from specific applications. Because of the independence of the invocation agent, the data it provides is therefore considered to be "generic output" as required by the claims. The output provided by the invocation agent is deemed generic because it is made available for all applications. The ARM API non-patent reference is relied upon for teaching the further aspect of having the output data in a scriptable interface for application programming interface wherein ARM API teaches in Fig. 1-1 the use of the application response measurement API.

(b) In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, the examiner maintains that one of ordinary skill would have been motivated to make a data output a generic form as taught by Leymann. The examiner maintains that one of ordinary skill would have been motivated to utilize Leymann in combination with the ARM API reference for the same reasons set forth in argument (a) and specifically implement independence from a specific application and make the data available for a wide range of calling applications as taught by Leymann in column 8, lines 9-13.

The applicant did not present any additional substantial arguments. The remaining claims stand rejected for the same reasons set forth with respect to claim 1.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin Ailes whose telephone number is (571)272-3899. The examiner can normally be reached Monday-Friday, IFP Hoteling schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Caldwell can be reached on 571-272-3868. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/B. A. A./
Examiner, Art Unit 2442

/Andrew Caldwell/
Supervisory Patent Examiner, Art
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